



<b>Substitute Form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/812,680		
		Filing Date	March 30, 2004		
		First Named Inventor	David C. Boyer et al.		
		Group Art Unit			
		Examiner Name			
Sheet		of		Attorney Docket Number	02274/6622AUS

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NumberKind Code (if known)			
173		US- 2,623,831	12/30/1952	Mikeska	
		US- 2,673,164	03/23/1954	Hughes et al.	
		US- 2,737,509	03/06/1956	Jelling	
		US- 2,937,106	05/17/1960	Carpenter et al.	
		US- 2,978,342	04/04/1961	Lefebvre	
		US- 3,047,414	07/31/1962	Katz	
		US- 3,085,891	04/16/1963	Butter	
		US- 3,096,191	07/02/1963	Pitchford	
		US- 3,096,192	07/02/1963	Pitchford	
		US- 3,108,971	10/29/1963	Mertens	
		US- 3,129,106	04/14/1964	Katz	
		US- 3,347,690	10/17/1967	Galvin et al.	
		US- 3,861,933	01/21/1975	Doi	
		US- 3,928,061	12/23/1975	Hellsten et al.	
177		US- 3,963,509	06/15/1976	Doi et al.	

FOREIGN PATENT DOCUMENTS						
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DB		US- 4,036,661	07/19/1977	Graf et al.	
		US- 4,038,096	07/26/1977	Graf et al.	
		US- 4,038,102	07/26/1977	Hellsten et al.	
		US- 4,173,489	11/06/1979	Crawford et al.	
		US- 4,383,081	05/10/1983	Grossi et al.	
		US- 4,430,127	02/07/1984	Dalter et al.	
		US- 4,430,465	02/07/1984	Abbott	
		US- 4,542,068	09/17/1985	Whichard	
		US- 4,543,158	09/24/1985	Bondoc et al.	
		US- 4,554,769	11/26/1985	Fujii et al.	
		US- 4,567,079	01/28/1986	Canfield et al.	
		US- 4,701,070	10/20/1987	Jelling	
		US- 4,701,484	10/20/1987	Chang et al.	
		US- 4,717,614	01/05/1988	Bondoc et al.	
		US- 4,721,529	01/26/1988	Mullins	
DB		US- 4,724,003	02/09/1988	Treybig et al.	

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DB		US- 4,743,304	05/10/1988	Gilmore et al.	
		US- 4,755,545	07/05/1988	Lalwani	
		US- 4,765,839	08/23/1988	Treybig et al.	
		US- 4,781,490	11/01/1988	Jelling	
		US- 4,786,329	11/22/1988	Chang et al.	
		US- 4,789,402	12/06/1988	Kostusyk	
		US- 4,795,661	01/03/1989	Bondoc et al.	
		US- 4,806,166	02/21/1989	Schilling et al.	
		US- 4,824,606	04/25/1989	O'Lenick, Jr. et al.	
		US- 4,825,616	05/02/1989	Bondoc et al.	
		US- 4,835,929	06/06/1989	Bondoc et al.	
		US- 4,836,857	06/06/1989	Hopkins	
		US- 4,839,404	06/13/1989	Chang et al.	
DB		US- 4,851,500	07/25/1989	Lalwani et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
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D3		US- 4,867,750	09/19/1989	O'Lenick Jr., et al.	
		US- 4,886,554	12/12/1989	Woodring et al.	
		US- 4,895,600	01/23/1990	Chang et al.	
		US- 4,900,589	02/13/1990	Montgomery	
		US- 4,917,764	04/17/1990	Lalwani et al.	
		US- 4,923,712	05/08/1990	Gladfelter et al.	
		US- 4,923,913	05/08/1990	Chich et al.	
		US- 4,992,315	02/12/1991	Zickell et al.	
		US- 5,011,726	04/30/1991	Chich et al.	
		US- 5,017,230	05/21/1991	Hopkins et al.	
		US- 5,055,135	10/08/1991	Grube et al.	
		US- 5,110,674	05/05/1992	Grube et al.	
		US- 5,110,726	05/05/1992	Ogden	
53		US- 5,164,002	11/17/1992	Ballenger, Jr. et al.	

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		Number/Kind Code (if known)			
DB		US- 5,224,990	07/06/1993	Vicenzi et al.	
		US- 5,234,494	08/10/1993	Swatzky et al.	
		US- 5,267,809	12/07/1993	Allan	
		US- 5,312,483	05/17/1994	Swatzky et al.	
		US- 5,362,314	11/08/1994	Vicenzi et al.	
		US- 5,511,899	04/30/1996	Pavelek, II	
		US- 5,512,093	04/30/1996	Huege et al.	
		US- 5,519,073	05/21/1996	van der Werff et al.	
		US- 5,545,278	08/13/1996	Chen et al.	
		US- 5,558,702	09/24/1996	Chatterjee et al.	
		US- 5,578,118	11/26/1996	Shuey et al.	
		US- 5,618,132	04/08/1997	Fogg et al.	
		US- 5,625,117	04/29/1997	Henderson et al.	
V DB		US- 5,626,658	05/06/1997	McArdle	
		US- 5,660,498	08/26/1997	Freeman	

FOREIGN PATENT DOCUMENTS						
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D3		US- 5,667,576	09/16/1997	Chatterjee et al.	
		US- 5,667,577	09/16/1997	Chatterjee et al.	
		US- 5,667,578	09/16/1997	Schilling	
		US- 5,670,562	09/23/1997	Schilling	
		US- 5,772,749	06/30/1998	Schilling et al.	
		US- 5,776,234	07/07/1998	Schilling	
		US- 5,820,663	10/13/1998	Miller et al.	
		US- 6,027,558	02/22/2000	Little et al.	
		US- 6,267,809	07/31/2001	Boyer et al.	
D3		US- 6,361,591 B1	03/26/2002	Boyer et al.	
		US- 6,383,365 B1	05/07/2002	Boyer et al.	
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D3			WO9856858		Schermer et al.	12/17/1988		

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Complete if Known		
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DB		D.G. TUNNICLIFF; Performance of antistripping additives; Association of Asphalt Paving Technologists Annual Meeting (Salt Lake City 3/17-19/1997)/Proceedings of the Association of Asphalt Paving Technologists V66:344-78 (1997);*Abstract	
		J.C. PETERSON, H. PLANCHER; Model studies and interpretive review of the competitive adsorption and water displacement of petroleum asphalt chemical functionalities on mineral aggregate surfaces; Petroleum Science and Technology (ISSN 10916466) V16 1-2:89-131 (January-February 1998); Abstract	
		SOMOGYVARI A P; ZANZOTTO L.; JEFFRIES R B; The anti-stripping properties of basic nitrogen in hydrocracked resid[ue]s; Fuel Science & Technology International (ISSN 0884-3759) V10 N.4-6 531-47 (May-July 1992); Abstract	
		R.C.G. HASS, E. THOMPSON, F. MEYER, G.R. TESSIER; The Role Of Additives In Asphalt Paving Technology; Proc. Assoc. Asphalt Paving Technol. V.52 PP.324-45(1984)*Abstract	
DB		R.L. DUNNING, G.O. SCHULZ AND W.F. GAWRON; Control Of Stripping With Polymer Treatment Of Aggregates; Asphalt Paving Technology, v.62, J. of the Assoc. of Asphalt Paving Technologists, From The Proceedings Of Technical Sessions; Austin, Texas; March 22-24, (1993)*Abstract	

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



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Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DB		H.W. BUSCHING, J.M. ALEWINE, S.N. AMIRKHANIAN, J.L. BURATI and M.O. FLETCHER; Effects Of Selected Asphalts And Antistrip Additives On Tensile Strength Of Laboratory-Compacted Marshall Specimens ... A Moisture Study; Proc. Assoc. Asphalt Paving Technol. V.55 PP.120-48 Assoc. Asphalt Paving Technol. Tech. Sessions (Clearwater Beach, FLA. 2/17-19/86)(1986) Abstract	
		T.W. KENNEDY, W.V. PING; An evaluation of effectiveness of antistripping additives in protecting asphalt mixtures from moisture damage; Association of Asphalt Paving Technologists Meeting (Seattle 3/4-6/91) Proceedings of the Association of Asphalt Paving Technologist V60 230-63 (1991) Abstract	
		Y.W. JEON, C.W. CURTIS, B.M. KIGGUNDU; An investigation of the effect of (precoating) antistripping (AnS) agents on silica adsorption of asphalt functionalities; Fuel Science and Technology International (ISSN 0884-3759) V8 N.3 241-70 (1990) Abstract	
		A.R. TARRER and V.P. WAGH; Innovative tests to predict the strength and type of asphalt-aggregate bonds; ACS Division of Petroleum Chemistry Preprints V35 N.3 361-69 (July 1990); Abstract	
DB		C. GIAVARINI and G. RINALDI; Development of new adhesion agents for asphalt cement; Ind. Eng. Chem. Res. (ISSN 0888-5885) V28 N.8 1231-36 (Aug. 1989); Abstract	

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DB		I. ISHAI, Y. A. TUFFOUR; The use of propane-precipitated asphalt (PPA) in bituminous paving mixtures; Assoc. Asphalt Paving Technol. Sessions (Reno, NV 2/23-25/88) Proc. Assoc. Asphalt Paving Echnol. V56-599-631 (1987); Abstract	
DB		ROHM AND HAAS COMPANY; Pave® 192 Asphalt Additive (7/99) 4 pages	
DB		Morton Material Safety Data Sheet; Pave® 192 Asphalt Additive; (4/7/99) 6 pages	

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(Information Disclosure Statement -- Section 2. FORM 1449A/PTO (PTO/SB/08A))

\* No  
month provided